

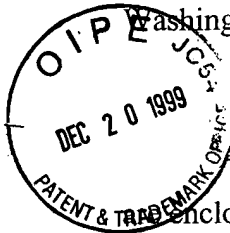
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David E. Wolf  
Serial No. : 09/394,265  
Filed : September 10, 1999  
Title : RECOMBINANT REDUCED VALENCY CARBOHYDRATE BINDING  
LIGANDS

Art Unit : 1635  
Examiner : Unknown

AS RJ  
3/1/2000

Assistant Commissioner for Patents  
Washington, D.C. 20231



INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 13, 1999

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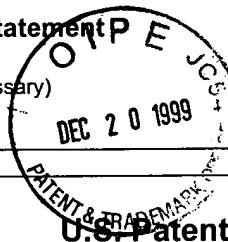
CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit December 13, 1999  
Signature Dena L. Rootes

Dena L. Rootes  
Typed or Printed Name of Person Signing Certificate

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 04037-007001	Application No. 09/394,265
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant David E. Wolf	
		Filing Date September 10, 1999	Group Art Unit 1635



## U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
88	AA	4,041,932	08/16/77	Fostick	128	2 G	—
88	AB	4,071,020	01/31/78	Pugliese	128	2 A	—
88	AC	4,330,299	05/18/82	Cerami	23	230 B	—
88	AD	4,344,438	08/17/82	Schultz	128	634	—
88	AE	4,401,122	08/30/83	Clark, Jr.	128	635	—
88	AF	4,822,746	04/18/89	Walt	436	528	—
88	AG	4,868,103	09/19/89	Stavrianopoulos, et al.	435	5	—
88	AH	4,981,779	01/01/91	Wagner	435	288	—
88	AI	5,001,051	03/19/91	Miller, et al.	435	6	—
88	AJ	5,028,787	07/02/91	Rosenthal, et al.	250	341	—
88	AK	5,101,814	04/07/92	Palti	128	635	—
88	AL	5,143,066	09/01/92	Komives, et al.	128	634	—
88	AM	5,244,636	09/14/93	Walt, et al.	422	82.07	—
88	AN	5,320,814	06/14/94	Walt, et al.	422	82.07	—
88	AO	5,326,531	07/05/94	Hahn, et al.	422	82.06	—
88	AP	5,341,805	08/30/94	Stavridi, et al.	128	633	—
88	AQ	5,342,789	08/30/94	Chick, et al.	436	501	—
88	AR	5,460,971	10/24/95	Gottlieb	436	68	—

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
88	AS	WO 90/10861	09/20/90	PCT	—	—	✓	
88	AT	0 561 653 A1	09/22/93	EPO	—	—	✓	
88	AU	WO 96/36275	11/21/96	PCT	—	—	✓	

Examiner Signature <i>Amelene R. Babel</i>	Date Considered 11-18-00
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
JS	BA	Cunningham, Bruce A., et al., "Isolation and Proteolytic Cleavage of the Intact Subunit of Concanavalin A," <i>Biochemistry</i> , Vol. 11, No. 17, pp. 3233-39, (1972).
JS	BB	Gunther, Gary R., et al., "Concanavalin A Derivatives with Altered Biological Activities," <i>Proc. Nat. Acad. Sci. USA</i> , Vol. 70, No. 4, pp. 1012-16, April 1973.
JS	BC	Wang, John L., et al., "Binding and Functional Properties of Concanavalin A and Its Derivatives," <i>The Journal of Biological Chemistry</i> , Vol. 253, No. 9, p. 3000-07 (1978).
JS	BD	Tanaka, Isao, et al., "Monovalent Monomer Derivative of Concanavalin A Produced By Photochemically Induced Alkylation," <i>J. Biochem</i> , 89, pp. 1643-46 (1981).
JS	BE	Schultz, Jerome S., et al., "Affinity Sensor: A New Technique for Developing Implantable Sensors for Glucose and Other Metabolites," <i>Diabetes Care</i> , Vol. 5, No. 3, pp. 245-253 (1982).
JS	BF	Wilson, T., "Standard Oil patents probe potentially more selective than radioisotope tracers," <i>BioTechnology Newswatch</i> , pp. 3 and 4, (1983).
JS	BG	Parker, J.W., et al., "Glucose/Oxygen sensor," Proceedings of SPIE - The International Society for Optical Engineering, Vol. 713 Optical Fibers in Medicine II, pp. 113-120 (1986).
JS	BH	Heller, M.J., et al., "Fluorescent Energy transfer Oligonucleotide Probes, Federation Proceedings, Federation of American Societies for Experimental Biology," Vol. 46, No. 6, Abstract No. 248, May 1, 1987.
JS	BI	Morrison, Larry E., "Solution Hybridization Measurements Using Complementary Strands of Fluorescent DNA," Gene Probe Technology II, The San Diego Conference (1 pg) (November 4-6, 1987).
JS	BJ	Meadows, et al., "Fiber-Optic Biosensors Based on Fluorescence Energy Transfer," <i>Talanta</i> , Vol. 35, No. 2, p. 145-150 (1988).
JS	BK	Cardullo, Richard A., et al., "Detection of Nucleic Acid Hybridization By Nonradiative Fluorescence Resonance Energy Transfer," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 85, pp. 8790-8794 (1988), <i>Biochemistry</i> .
JS	BL	Cardullo, R.A., et al., "Synthesis, Purification, and Characterization of 2,4,6-Trinitrophenyl-UDP-galactose; A Fluorescent Substrate for Galactosyltransferase," <i>Analytical Biochemistry</i> , Vol. 188, pp. 305-309 (1990).
JS	BM	Chien, Cheng-Ting, et al., "The Two-Hybrid System: A Method to Identify and Clone Genes for Proteins that Interact with a Protein of Interest," <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 88, pp 9578-9782 (1991), <i>Biochemistry</i> .
JS	BN	McKinnon, Christine A., et al., "Cross-Linking a Maturation-Dependent Ram Sperm Plasma Membrane Antigen Induces the Acrosome Reaction," <i>Molecular Reproduction and Development</i> Vol. 29, pp. 200-207 (1991).
JS	BO	Kroschwitz, Jacqueline I., ed., "Biosensors," <i>Kirk-Othmer Encyclopedia of Chemical Technology</i> , Vol., 4, pp. 208-220 (1992).
JS	BP	Lakowicz, Joseph R., "Fluorescence Lifetime Sensing," <i>Laser Focus World</i> , Vol., 28, No. 5, pp. 60-62, 66-68, 70, 72, 75, 77-78 and 80, (1992).
JS	BQ	Naismith, James H., et al., "Refined Structure of Cadmium-substituted Concanavalin A at 2.0 Å Resolution," <i>Acta Crystallographica</i> , D49, pp. 561-571 (1993).

Examiner Signature <i>Smilene R. Inghel</i>	Date Considered 11-18-00
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	